

Electromagnetic & Radio Frequency Conversion Chart

www.swiftrunnerministries.com www.biblepicturepathways.com

Sources	V/m	W/m ²	mW/m ²	μW/m ²	mW/cm ²	μW/cm ²	mG	Changes & Effects proven in Studies
		10.0	10000	10000000	1.00	1000.0		U.S. Supposed "Safe Level"
	60.160	9.6	9600	9600000	0.96	960.0	2.015	
	53.633	7.63	7630	7630000	0.76	763.0	1.797	
	47.800	6.06	6060	6060000	0.61	606.0	1.601	Cell Changes in calcium levels
	42.584	4.81	4810	4810000	0.48	481.0	1.426	23% drop (Insulin)25% drop (testosterone)
	37.949	3.82	3820	3820000	0.38	382.0	1.271	
Smart Meter	33.854	3.04	3040	3040000	0.30	304.0	1.134	
	30.143	2.41	2410	2410000	0.24	241.0	1.010	
DECT Cordless Phone	26.904	1.92	1920	1920000	0.19	192.0	0.9012	
Microwave oven leakage	23.938	1.52	1520	1520000	0.15	152.0	0.8018	
	21.358	1.21	1210	1210000	0.12	121.0	0.7154	Leakage of Blood Brain Barrier
	19.024	0.96	960	960000	0.10	96.0	0.6372	Altered White Blood Cells
	16.960	0.76	763	763000	0.08	76.3	0.5681	Altered Brain Cortex
Cell Phone (spike)	15.115	0.606	606	606000	0.0606	60.6	0.5063	Altered Cell Structure
Smart Meter	13.466	0.481	481	481000	0.0481	48.1	0.4511	Altered Testosterone
1' from DECT Phone	12.001	0.382	382	382000	0.0382	38.2	0.4020	Elevated PFC count
	10.706	0.304	304	304000	0.0304	30.4	0.3586	Damage Immune Sys.
30' from Microcell station	9.532	0.241	241	241000	0.0241	24.1	0.3193	Increased Free Rad.
8" from WIFI Router	8.508	0.192	192	192000	0.0192	19.2	0.2850	Increased Stress
Cell Phone (talking)	7.570	0.152	152	152000	0.0152	15.2	0.2536	Lymphocytes, Stress
	6.754	0.121	121	121000	0.0121	12.1	0.2262	Altered Cells
DECT Baby Monitor	6.016	0.096	96	96000	0.0096	9.6	0.2015	Cancer increase
Within 1200' of Cell Tower	5.363	0.076	76.3	76300	0.0076	7.63	0.1796	DNA Fragmentation
	4.780	0.061	60.6	60600	0.0061	6.06	0.1601	DNA Damage
3' from Cell Phone	4.258	0.048	48.1	48100	0.0048	4.81	0.1426	Damaged Heart & Brain Tissue
3' from DECT Phone	3.795	0.038	38.2	38200	0.0038	3.82	0.1271	Altered Cells
	3.385	0.030	30.4	30400	0.0030	3.04	0.1134	Altered Heart Cells
Standard Baby Monitor	3.014	0.024	24.1	24100	0.0024	2.41	0.1010	Breakdown of Blood Brain Barrier
3' from WIFI Router	2.690	0.019	19.2	19200	0.0019	1.92	0.09011	Memory Loss and Brain Fog
Bluetooth ear piece	2.394	0.015	15.2	15200	0.0015	1.52	0.08019	Blood Cancers
9' from Smart Meter	2.136	0.012	12.1	12100	0.0012	1.21	0.07155	Headache, fatigue
	1.902	0.0096	9.6	9600	0.00096	0.96	0.06371	Leakage of Blood Brain Barrier
Drive Thru Hospital Complex	1.696	0.00763	7.63	7630	0.000763	0.763	0.05681	DNA Fragmentation
Laptop computer	1.512	0.00606	6.06	6060	0.000606	0.606	0.05065	Cardiac arrhythmias & arrest in frogs

Sources	V/m	W/m ²	mW/m ²	μW/m ²	mW/cm ²	μW/cm ²	mG	Studies & Effects
6' from DECT Phone	1.347	0.00481	4.81	4810	0.000481	0.481	0.04512	Cancer, Brain Tumor risk 121% higher
Inside Public Library (WIFI)	1.200	0.00382	3.82	3820	0.000382	0.382	0.04020	Headaches, Breast Cancer risk 23% higher
Wireless Presenter	1.071	0.00304	3.04	3040	0.000304	0.304	0.03587	Leukemia risk doubled
Wireless Computer Mouse	0.953	0.00241	2.41	2410	0.000241	0.241	0.03192	Leukemia in Children
	0.851	0.00192	1.92	1920	0.000192	0.192	0.02851	Memory Loss and Brain Fog
9' from DECT Phone	0.757	0.00152	1.52	1520	0.000152	0.152	0.02536	Irreversible Sterility in mice after 5 gen.
	0.675	0.00121	1.21	1210	0.000121	0.121	0.02261	Free Radical Damage
	0.602	0.00096	0.96	960	0.000096	0.096	0.02016	Neurological & Cardiac problems
10' from wireless computer	0.536	0.00076	0.76	763	0.000076	0.076	0.01795	Increased Cancer, headaches
	0.478	0.00061	0.61	606	0.000061	0.061	0.01601	Slowed heart rates, change EEG in rabbits
Airport Terminal	0.426	0.00048	0.48	481	0.000048	0.048	0.01427	Damaged Sperm
1 mile from Cell Tower	0.379	0.00038	0.38	382	0.000038	0.038	0.01270	Brain Stupefied or "zoned out"
	0.339	0.00030	0.30	304	0.000030	0.030	0.01136	Altered EEG
	0.301	0.00024	0.24	241	0.000024	0.024	0.01008	Neurological problems
Inside Public Library (WIFI)	0.269	0.00019	0.19	192	0.000019	0.019	0.009011	Fatigue
50' from DECT phone	0.239	0.00015	0.15	152	0.000015	0.015	0.008006	Headache, sleep problems
Walmart Parking Lot	0.214	0.00012	0.12	121	0.000012	0.012	0.007168	Increased stress hormones & Adrenaline
Costco Parking lot	0.190	0.000096	0.096	96	0.0000096	0.0096	0.006364	Cardio-vascular problems
	0.1696	0.000076	0.076	76.3	0.0000076	0.0076	0.005681	Depression, Fatigue
	0.1512	0.000061	0.061	60.6	0.0000061	0.0061	0.005065	Irritation, concentration difficulties
	0.1347	0.000048	0.048	48.1	0.0000048	0.0048	0.004512	Headaches
Low-emission Baby monitor	0.1200	0.000038	0.038	38.2	0.0000038	0.0038	0.004020	Behavior problems in Children
	0.1071	0.000030	0.030	30.4	0.0000030	0.0030	0.003587	Sleep disorders, Fatigue
	0.0953	0.000024	0.024	24.1	0.0000024	0.0024	0.003192	Digestive disorders, limb & joint pain
	0.0851	0.000019	0.019	19.2	0.0000019	0.0019	0.002851	Abnormal blood pressure
300' from Cell Phone	0.0757	0.000015	0.015	15.2	0.0000015	0.0015	0.002536	
	0.0675	0.000012	0.012	12.1	0.0000012	0.0012	0.002261	
	0.0602	0.0000096	0.0096	9.6	0.00000096	0.00096	0.002016	Decreased cell proliferation

All measurements are only "approximate" because the radiation levels in public places fluctuate continuously and are also affected by other surrounding devices. Readings vary depending on levels of frequency measured – ex. the U.S. "Safe" level is 1000 μW/cm² at 1800 MHz but 600 μW/cm² at 900 MHz. Magnetic Fields measured in milligauss (mG) in USA and microTesla (μT) internationally. Power Density measured in watts per square meter (W/m²); milliwatts per square meter (mW/m²); and microwatts per centimeter squared (μW/cm²). Electric Field Intensity measured in volts per meter (V/m); and millivolts per meter (mV/m)

Conversion for Magnetic Fields

1 milligauss = 0.1 microtesla
1 microtesla = 10 milligauss

Conversion for Power Density units

1 mW/cm² = 10,000 mW/m² = 10W/m²
1 μW/cm² = 10,000 μW/m² = 10mW/m²

Conversion for Electric Field Intensity

1 V/m = 1000mV/m

Conversion from (W/m²) to (V/m)

$$V/m = (W/m^2 \times 377)^{1/2}$$

Example

$$1 \text{ mW/m}^2 = (0.001 * 377)^{1/2} \text{ V/m} = 0.6 \text{ V/m}$$

Conversion from (V/m) to (W/m²)

$$W/m^2 = (V/m)^2 / 377$$

Example

$$0.6 \text{ V/m} = (0.6)(0.6)/377 \text{ W/m}^2 = 0.001 \text{ W/m}^2 = 1 \text{ mW/m}^2$$